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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 02.03.2024 Version number 22 (replaces version 21) Revision: 02.03.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

Trade name MC-DUR 2211 MB - Komponente B

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance

/ the mixture Hardening agent/ Curing agent

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: MC-Bauchemie Müller GmbH & Co. KG

Am Kruppwald 1-8 D-46238 Bottrop Tel.: +49(0)2041-101-0 Fax.: +49(0)2041-101-400

Fax.: +49(0)2041-101-400 E-Mail: info@mc-bauchemie.de

MC-Bauchemie AG Hagackerstr. 10 CH-8953 Dietikon Tel.: +44-7400510 Fax: +44-7400533

· Informing department:

msds@mc-bauchemie.de

· 1.4 Emergency telephone

number:

Tel.: +49 / (0)700 24112112 (MCR)

Tel.: +1 872 5888271 (MCR)

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H332 Harmful if inhaled.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- · 2.2 Label elements
- Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



GHS07 GHS08

· Signal word Danger

· Hazard-determining

components of labelling: cyclohexanone

methyl-1,3-phenylene diisocyanate p-toluenesulphonyl isocyanate

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· **Hazard statements** H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

• Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P284 [In case of inadequate ventilation] wear respiratory

protection.

P304+P340 IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell. P342+P311 If experiencing respiratory symptoms: Call a POISON

CENTER/doctor.

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

· Additional information: As from 24 August 2023 adequate training is required before

industrial or professional use.

· 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• **Description:** Mixture consisting of the following components.

Dangerous components:		
CAS: 108-94-1 EINECS: 203-631-1	cyclohexanone Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4,	<2.5%
	H312; Acute Tox. 4, H332; Eye Írrit. 2, H319	. 0.440/
CAS: 4083-64-1	p-toluenesulphonyl isocyanate Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥0.1-<1%
CAS: 26471-62-5	methyl-1,3-phenylene diisocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Carc. 2, H351; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	≥0.1-<1%
Additional information	For the wording of the listed before a phreses refer to see	otion 16

• Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information Remove, decontaminate and dispose of soiled, soaked clothing

and shoes immediately.

• After inhalation Remove person to fresh air, keep warm, allow to rest; if breathing

is difficult, seek medical attention.

· After skin contact In case of contact with skin, preferably wash with polyethylene

glycol-based cleaner or clean with plenty of warm water and soap.

Consult a doctor in case of skin reactions.

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· After eye contact Rinse the eyes with open eyelids for a sufficiently long time (at

least 10 minutes) with water that is as lukewarm as possible.

Consult an ophthalmologist.

· After swallowing Do NOT induce vomiting. Rinse mouth with water. Medical

attention required.

· 4.2 Most important symptoms and effects, both acute and

delayed

Information for the doctor: The product irritates the respiratory tract and is a potential trigger for skin and respiratory sensitisation. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Depending on the extent of exposure and the symptoms, prolonged medical treatment may be necessary.

· 4.3 Indication of any immediate medical attention

and special treatment needed No information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· For safety reasons unsuitable

extinguishing agents

Water with a full water jet.

5.2 Special hazards arising from the substance or

mixture

No further relevant information available.

· 5.3 Advice for firefighters

5.5 Advice for firefighters

· **Protective equipment:** Put on breathing apparatus.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Prevent material from reaching sewage system, holes and cellars.

6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other

sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure sufficient air exchange and/or extraction in the work areas.

Air extraction is required for spray application.

For solid products: Avoid dust formation and dust deposits. Air limit values mentioned in section 8 must be monitored.

At workplaces where isocyanate aerosols and/or vapours can occur in higher concentrations, targeted air extraction must be used to prevent the occupational hygiene limit value from being

exceeded. The air must be moved away from people.

For products containing solvents: Explosion protection required. The personal protective measures described in section 8 must be observed. The protective measures required when handling isocyanates must be observed. Avoid contact with skin and eyes and inhalation of vapours.

Keep away from food and beverages. Wash hands before breaks and at the end of work and apply skin protection ointment. Store work clothes separately. Remove soiled, soaked clothing

immediately.

· 7.2 Conditions for safe storage, including any incompatibilities

Keep container dry and tightly closed. Further information on the storage conditions that must be observed for quality assurance

reasons can be found in our technical data sheet.

· Storage

· Requirements to be met by

storerooms and containers: Store only in the original container.

· Further information about

storage conditions: None.
Storage class 10

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

CAS: 108-94-1 cyclohexanone

WEL | Short-term value: 82 mg/m³, 20 ppm

Long-term value: 41 mg/m³, 10 ppm

Sk, BMGV

CAS: 4083-64-1 p-toluenesulphonyl isocyanate

WEL Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m3

Sen; as -NCO

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CAS: 26471-62-5 methyl-1,3-phenylene diisocyanate

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³

Sen; as -NCO

· DNELs

CAS: 26471-62-5 methyl-1,3-phenylene diisocyanate

Inhalative DNEL 0.035 mg/m³ (ArL)

· PNECs

CAS: 26471-62-5 methyl-1,3-phenylene diisocyanate

PNEC 0.0125 mg/l (Fresh water)

1 mg/l (Kla)

0.00125 mg/l (Mew)

PNEC 1 mg/kg dwt (Bod)

· Ingredients with biological limit values:

CAS: 108-94-1 cyclohexanone

BMGV 2 mmol/mol creatinine

Medium: urine

Sampling time: post shift Parameter: cyclohexanol

· Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls
Appropriate engineering

controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

General protective and

hygienic measures Keep away from food, drink and animal feed.

Remove soiled, soaked clothing immediately.
Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

· Breathing equipment: Respiratory protection required at insufficiently ventilated

workplaces and when working with splashes. Fresh air masks or combination filters A2-P2 (EN529) are recommended for short-

term work.

If applicable, further recommendations for respiratory protection

can be found in the appendix.

In case of hypersensitivity of the respiratory tract (asthma, chronic

bronchitis), handling of the product is not recommended.

· Hand protection Suitable materials for protective gloves; EN 374:

Butyl rubber, nitrile rubber, chloroprene rubber (neoprene).

Note: suitable materials that provide sufficient protection for industrial cleaning with aprotic polar solvents (according to IUPAC

definition): butyl rubber.

In case of prolonged or frequently repeated contact, a glove with a protection class of 5 or higher is recommended (breakthrough time greater than 240 minutes according to EN374). For short-term

contact, a glove with a protection class of 3 or higher is

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recommended (breakthrough time greater than 60 minutes according to EN374).

The thickness of the material is not the only criterion for the level of protection of a glove against a chemical substance. The protective effect also depends to a large extent on the type of glove material. Depending on the type and material, the thickness must be more than 0.35 mm to ensure adequate protection in the event of prolonged and frequent contact. Exceptions to this rule are multilayer gloves, which guarantee sufficient protection even with a thickness of less than 0.35 mm during prolonged wear. Other glove materials with a thickness of less than 0.35 mm only provide sufficient protection for short periods of wear.

For solvent-free products:

Example:

Polychloroprene - CR: thickness ≥0.5mm; breakthrough time

≥480min.

Nitrile rubber - NBR: thickness ≥0.35mm; breakthrough time

*≥*480min.

Butyl rubber - IIR: thickness \geq 0.5mm; breakthrough time \geq 480min. Fluoro rubber - FKM: thickness \geq 0.4mm; breakthrough time

≥480min.

Recommendation: Dispose of contaminated gloves.

Material of gloves

Polychloroprene - CR Nitrile rubber - NBR Butyl rubber - IIR Fluoro rubber - FKM

Penetration time of glove

material

Polychloroprene - CR: thickness ≥0.5mm; breakthrough time

>480min.

Nitrile rubber - NBR: thickness ≥0.35mm; breakthrough time

*≥*480min.

Butyl rubber - IIR: thickness ≥0.5mm; breakthrough time ≥480min. Fluoro rubber - FKM: Thickness ≥0.4mm; Breakthrough time

≥480min.

· Eye/face protection · Body protection:

Safety goggles with side protection in accordance with EN 166.

Use chemical-resistant protective clothing.

In case of hypersensitivity of the skin, handling the product is not

recommended.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Colour: Colourless
 Smell: Characteristic
 Melting point/freezing point: Not determined

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· Boiling point or initial boiling point and

boiling range

Not determined

· Lower and upper explosion limit

· Lower:

Not determined.
Not determined.

· Flash point: · pH >100 °C Not determined.

· Viscosity:

• Kinematic viscosity
• dynamic at 20 °C:

Not determined.
4350 mPas

· Solubility

· Water:

Not miscible or difficult to mix

Steam pressure: Not determined.

Density and/or relative density

Density at 20 °C 1.07 g/cm³

· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

Self-inflammability: Product is not selfigniting.
 Explosive properties: Product is not explosive.

Information with regard to physical hazard

classes

· Explosives Void Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void Flammable liquids Void Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void

Substances and mixtures, which emit flammable gases in contact with water Void
Oxidising liquids Void
Oxidising solids Void
Organic peroxides Void
Corrosive to metals Void
Desensitised explosives Void

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

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· 10.2 Chemical stability

· Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous

reactions No dangerous reactions known

10.4 Conditions to avoid
 10.5 Incompatible materials:
 No further relevant information available.

· 10.6 Hazardous

decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Harmful if inhaled.

· LD/LC50	· LD/LC50 values that are relevant for classification:				
CAS: 108	CAS: 108-94-1 cyclohexanone				
Oral	LD50	1900 mg/kg (rat)			
Dermal	LD50	948 mg/kg (rabbit)			
Inhalative	LC50/4 h	8000 mg/l (rat)			
CAS: 408	CAS: 4083-64-1 p-toluenesulphonyl isocyanate				
Oral	LD50	2600 mg/kg (rat)			
CAS: 264	CAS: 26471-62-5 methyl-1,3-phenylene diisocyanate				
Oral	LD50	4130 mg/kg (rat)			
Dermal	LD50	>9400 mg/kg (rabbit)			
Inhalative	LC50/4 h	0.48 mg/l (rat) (OECD 403)			

· Skin corrosion/irritation

Based on available data, the classification criteria are not met.

· Respiratory or skin

sensitisation

May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
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 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 26471-62-5 methyl-1,3-phenylene diisocyanate

LC50/14d >1000 mg/kg (Eisenia foetida) LC50/96h 133 mg/l (Oncorhynchus mykiss)

EC50 >100 mg/l (BEL)

EC50/48h 12.5 mg/l (Daphnia magna) EC50/96h 4300 mg/l (Chlorella vulgaris)

3230 mg/l (Ske)

NOEC 1.1 mg/l (Daphnia magna)

· 12.2 Persistence and

degradability No further relevant information available.

· 12.3 Bioaccumulative

potential
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

12.5 Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

· 12.6 Endocrine disrupting

properties The product does not contain substances with endocrine disrupting

properties.

· 12.7 Other adverse effects

· Additional ecological information:

General notes: Do not allow undiluted product or large quantities of it to reach

ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

• Recommendation Must not be disposed of together with household garbage. Do not

allow product to reach sewage system.

· Uncleaned packagings:

Recommendation: Empty contaminated packagings thoroughly. They can be recycled

after thorough and proper cleaning.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, ADN, IMDG, IATA Void

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	(Soma.	or page
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk accordi IMO instruments	ng to Not applicable.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/ legislation specific for the

substance or mixture No further relevant information available.

· Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· 15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Relevant phrases H226 Flammable liquid and vapour.

H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled. H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

Department issuing data specification sheet:

Environment protection department.

Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International

Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous

Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 1: Acute toxicity – Category 1 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Categor Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.